Benefits of renewable energy:

- It can be used without depleting it
- There are no green gas emissions, no pollution emissions, and no contribution to global warming
- It is healthy and environmentally friendly
- Renewable energy sources like wind and solar don’t emit smoke or create pollution when they are used. Whereas fossil fuels like coal emits smoke and chemicals when it is burned to make electricity.

You can help save energy by:

- Unplugging electronics you’re not using to avoid unnecessary energy use
- Turn off lights when the room is not in use
- Close doors, windows and curtains when you’re heating or cooling your home
- Open windows to catch a cool breeze to help cool your home in summer
- When old light bulbs expire, replace them with more efficient LED lighting
- Wear the right clothes – dress for the temperature so you don’t need to heat and cool as much.

Energy Efficiency Facts

Renewable energy sources are fuel types and energy carriers that are different from the fossil ones. Renewable energy is derived from natural processes. Renewable energy is also known as clean energy.

There are five common renewable sources:

1. **Solar** – This is the conversion of sunlight into electrical energy using mirrors and boilers or photovoltaic cells, commonly seen on house roofs.
2. **Hydro** – Hydroelectricity is made with dams that block a river to collect water. When the water is ‘let go’, the pressure turns turbines, which turns a generator, making electricity.
3. **Geothermal** – This uses pipes buried about 1 metre deep in the earth. Water is pumped through the pipes to transfer the heat indoors.
4. **Wind** – When wind turns the blades of a windmill or wind turbine, it spins a turbine inside a generator to produce electricity.
5. **Biomass** – Biomass uses natural materials like trees and plants to make electricity. It can also use waste products which produces methane.
Fill the Gaps – Read the facts on Page 1 first

Benefits of ____________ energy are it can be used without depleting it and there are no greenhouse ________ emissions. It is healthy and environmentally ________________.

Renewable ____________ sources are derived from _________________ processes including, wind, ____________, ____________, biomass and geothermal.

You can conserve energy by _______________ electronics you’re not using them and turning off _________ when the room is not in use.

Close ____________, windows and blinds when you’re heating or cooling your home. Replace old light bulbs with more efficient _____________ lighting.

Renewable Energy Word Find

(Words can be backwards, forwards or diagonal)

BIOMASS, CLIMATE, EFFICIENT, ENERGY, HYDRO, RECYCLE, REDUCE, RENEWABLE, SOLAR, WAVE, WIND